SUNNIC GROUP

SUNMORE SMART TECHNOLOGY INC.

LIFE Medical Education Industry

Smart IoT Solution Provider

Product Quick Tour Guide

Company Info

Sunmore was established in 2012, following the parent company's step of long-term dedication to be a technical marketing-oriented professional corporate. Sunmore provide customers with diverse, various, vertical/ horizontal integrated industry for One Stop Shopping supply service. Sunmore takes "image capture, Display, Storage and Internet transmission" as the technical development focus, and adopts as technical development platform. R&D products range from image retrieval series of smart camera in high resolution and display of all size.

Under IoE / IoT applications trend, expand Smart IoT applications and systems development, Including of Smart Living, Education, Medical ,industry, etc., and provide the total solution of smart home, intelligent medical, care, smart interactive, educational and smart commercial and industrial applications by internet. Integration of relational data(Data) from whole system, and delivered by the network to the server or cloud storage. Intelligence analysis and feedback functions are to achieve effective IoT..

"OGA" represents "sound and image". It is derived from "Oto", the Japanese word for sound, "Gazo", the Japanese word for video, and "Alliance", merging technology, product development, and commitment to quality into infinite possibilities. The combination of "sound", "image", and "alliance" are merged into the brand name "OGA", representing the market position of the Sunnic Group.

LIFE Medical Education Industry

Smart IoT Solution Provider

(1)Life :	Entertainment& Care System / Home Integrated System Community Management System
(2)Medical:	Medical Broadcasting System / Hospital Info System /Health Care System
(3)Education:	Campus Broadcasting System / Digital Learning System / Distance Learning System
(4)Commercial :	Production Decision System / Commerce Broadcasting System / Marketing Broadcasting System

OGA smart IoT

OGA Smart IoT Solution

(1) Smart Security Surveillance Series

(2) Smart IoT Gateway Series

(3) Smart IoT Gateway -Display Series

OGA Professional Security Surveillance Series

(1) IP camera

(2) CCTV camera

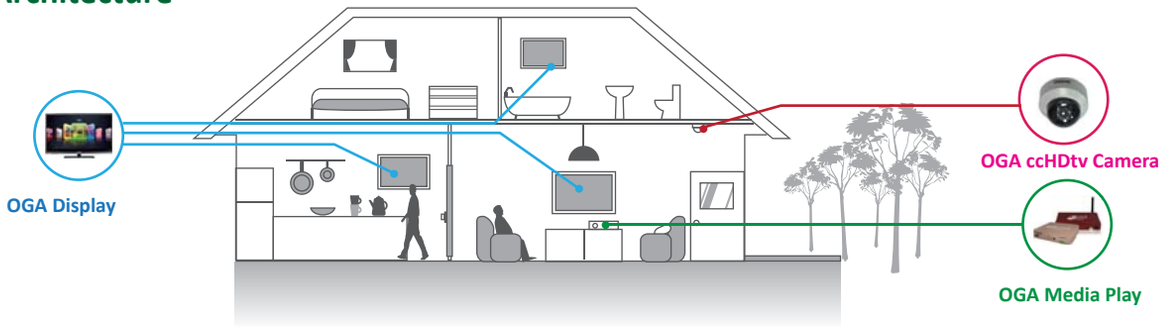
Sunmoretech has completed product integration in the trend of IoE / IoT applications and expands our services on Smart IoT applications and systems development, including Smart Living, Education, and Medical industries...etc. Moreover, we provide perfect System Planning to users, such as the 12 applications for Smart Life, Education, and Medical Industries.

Smart IoT Solution Provider

LIFE

(1) Life: Entertainment& Care / Home Integrated / Community Management System

System Architecture



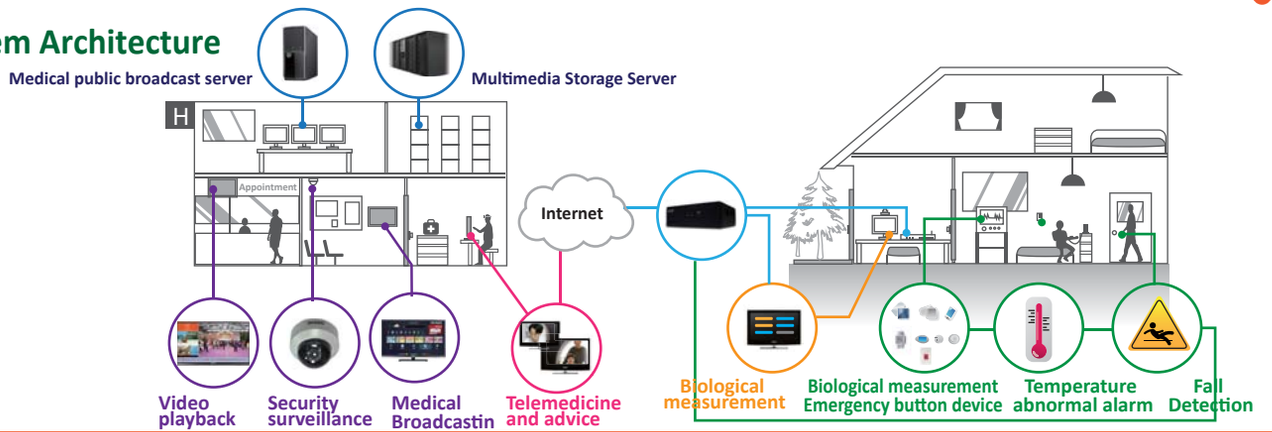
System Introduction

Through the Internet system and Smart Display and TV set, the system provides all kinds of domestic entertainments – TV programs (DVB-T), on-line VOD, program pre-tape scheduling, on-line shopping, and video communication. Combined with surveillance, video recording, security detection, the system offers vicinity security surveillance and real-time unusual events detection & alarm to family, residents, and community.

Medical

(2) Medical: Medical Broadcasting / Hospital Info /Health Care System

System Architecture



System Introduction

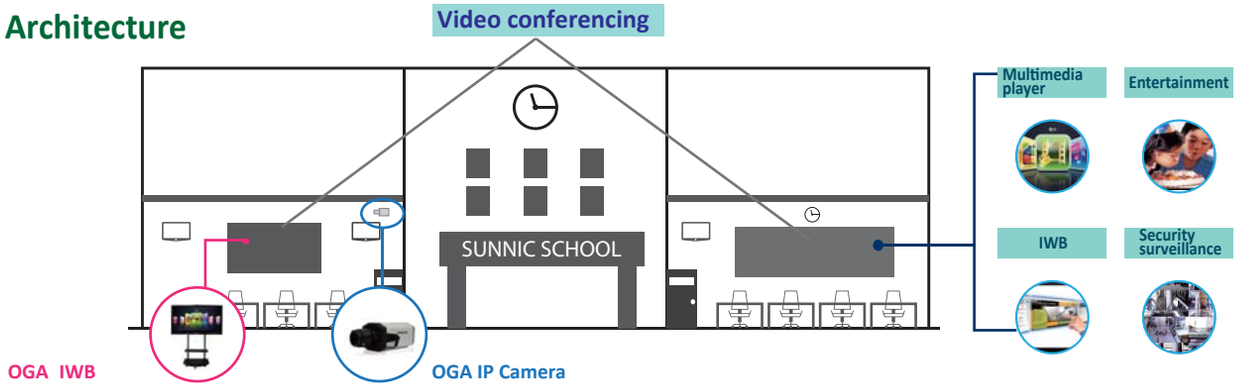
Through Internet real-time dispatch operation, the system broadcasts medical educational information, health & hygiene promo, outpatient registry, clinic service, fee collection, and medicine collection in all display systems in hospital areas. The system offers information service combined with CCTV, video recording, security surveillance.
Through the Internet system and Smart Display and TV set, the system provides Combined with medical equipment such as body-weight meter, manometer, and blood glucose meter, the system uploads, records, and analyzes daily biological measurement.

Smart IoT Solution Provider

Education

(3) Education: Campus Broadcasting / Digital Learning / Distance Learning System

System Architecture



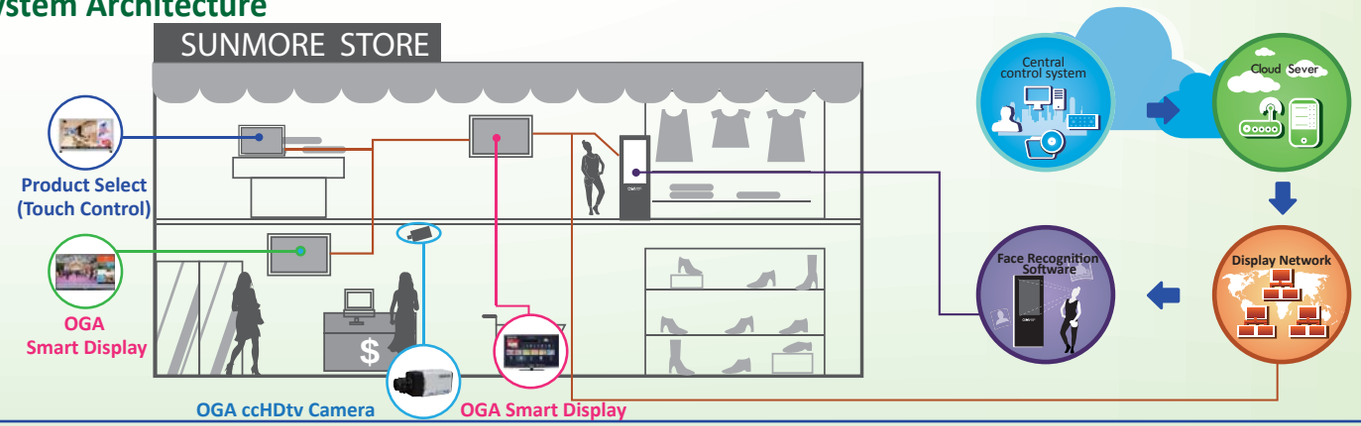
System Introduction

The system is offers functions of HD multimedia player, videoconference, touch panel, games, and surveillance. Through Internet service, the system offers users multi-way & long-distance videoconference, touch panel sharing, document transmission, and file sharing. The system helps reduce travel and budget cost and greatly elevate working and communication efficiency. The system also offers comprehensive Electronization, interactive teaching application, and enhances teaching efficiency and performance.

Industry

(4) Commercial : Production Decision / Commerce Broadcasting / Marketing Broadcasting System

System Architecture



System Introduction

Through Internet real-time content dispatch mechanism to all displays , the system broadcasts extracurricular activities in campus areas, accommodation complimentary campaign in hotel public areas, food & beverage promo in restaurants, and new product release in shops. The system also offers Smart broadcasting and dispatch, including channel management, rating statistics, and accounting management.

LIFE Medical Education Industry

Smart IoT Solution Provider

OGA® Way to Innovate

Smart IoT Solution

Smart IoT Solution-Smart Security Surveillance Series

Smart IoT Solution Provider

FULL HD 1080P Series

Smart Security Surveillance Series

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support Full HD 1080P / VGA@20-30fps
- CVBS out (Analog) , DVB-T out (Digital)
- Water-proof IP66-rated housing

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support Full HD 1080P / VGA@20-30fps
- CVBS out (Analog) , DVB-T out (Digital)
- Vandal-proof metal housing

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support Full HD 1080P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- CVBS out (Analog) & DVB-T out (Digital)

Model	HT-132M1	HV-132M1	HB-132M2L
Video Compression Format	H.264 video compression format, TS stream transmission		
Image Sensor	1/2.8" SONY Exmor CMOS 2 Megapixels Progressive image Sensor		
Digital Video Processor	HI-3516C		
Lens Mount Type	3.0mm~16mm (CS Mount)	6mm (CS LENS)	3.0mm~16mm (CS Mount)
Smart IR	None		Support (DC)
Minimum Illumination	Color : 0.2 Lux@F1.2, B/W: 0.01 Lux@F1.2		
Electronic Shutter	1/25 to 1/10,000 second, 1/30 to 1/10,000 second		
Auto White Balance	Automatic		
Auto Gain Control	Automatic		
Gamma Characteristic	0.45 dB		
Supported Video Resolution	Supports dual-channel program output： Channel 1: 720P@20~30fps Channel 2: VGA @20~30fps		
Video Setting	Adjustable DIP-switch video settings: Signal Adjustment, Back Light Control (BLC), Anti-Flicker, De-Noise, De-fog	OSD CVBS to adjust camera settings: set the channel、set the CVBS output mode、set signal intensity adjustment setting turn on backlight compensation setting reduced noise	Adjustable DIP-switch video settings: Anti-Flicker ,BLC ,De-Noise, Signal Adjustment Automatic exposure (AE)/Automatic iris (AI)
Infrared Filter (ICR)	Supports 5v IR-Cut		
Infrared Light Specifications	5ϕ 36 infrared LED	N/A	N/A
Effective Infrared Lighting Distance	N/A		
Bandwidth	Adjustable band adjustment: 5 MHz ~ 8MHz		
Frequency Range	Frequency range 141~923Mhz Default: 177 MHz		
Digital Channel	Adjustable knob channel settings: Channels 00~99		
Transmission Format Compatibility	Compatible with DVB-T digital TV transmission standard (ETSI EN 300 744)		
Video Output	BNC 1: DVB-T digital video output BNC 2: CVBS analog video output		
Rated Input Voltage / Current	DC 12V±10%		
Power Input Connector	DC Jack 5.5 x 2.1mm, female		
Working/Storage Temperature	0°C ~ 40°C / -10°C ~ 50°C		
Working/Storage Humidity	80% RH / 90% RH		
Case Structure	Metal case; Outdoor use	Metal dome case; Indoor use	Metal case; Indoor use
External Dimensions (mm)	231x 77 x 131 mm	150x 105 mm	125 x 58 x 62 mm

Smart IoT Solution-Smart Security Surveillance Series

Smart IoT Solution Provider

720P HD Series

Smart Security Surveillance Series

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support HD 720P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- CVBS out (Analog) & DVB-T out (Digital)

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support HD 720P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- 25m IR distance

- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support HD 720P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- 25m IR distance

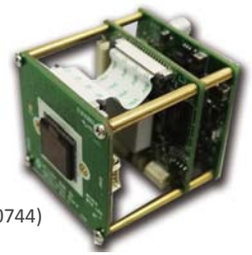
Model	HB-122 M1	HT-122 M1	HD-122P1
Video Compression Format	H.264 video compression format, TS stream transmission		
Image Sensor	1/2.8" SONY Exmor CMOS 1.3 Megapixels Progressive image Sensor		
Digital Video Processor	Hi-3518A		
Lens Mount Type	3.0mm~16mm (CS Mount)	6mm(Board Lens)	6mm(Board Lens)
Smart IR	Supported (DC driven)	N/A	N/A
Minimum Illumination	Color : 0.2 Lux@F1.2, B/W: 0.01 Lux@F1.2		
Electronic Shutter	1/25 to 1/10,000 sec, 1/30 to 1/10,000 sec		
Auto White Balance	Automatic		
Auto Gain Control	Automatic		
Gamma Characteristic	0.45 dB		
Supported Video Resolution	Supports dual-channel program output: Channel 1: 720P@20~30fps, Channel 2: VGA@20~30fps		
Video Setting	Adjustable DIP-switch video settings: Anti-Flicker ,BLC ,De-Noise, Signal Adjustment Automatic exposure (AE)/Automatic iris (AI)	OSD CVBS to adjust camera settings: set the channel, set the CVBS output mode, set signal intensity adjustment setting turn on backlight compensation, setting reduced noise	OSD CVBS to adjust camera settings: set the channel, set the CVBS output mode, set signal intensity adjustment setting turn on backlight compensation, setting reduced noise
Infrared Filter (ICR)	Supports 5v IR-Cut		
Infrared Light Specifications	N/A	5ϕ 36 infrared LED	5ϕ 36 infrared LED
Effective Infrared Lighting Distance	N/A	25M	25M
Bandwidth	Adjustable band adjustment: 5 MHz ~ 8MHz		
Frequency Range	Frequency range 141~923Mhz Default: 177 MHz		
Digital Channel	Adjustable knob channel settings: Channels 00~99		
Transmission Format Compatibility	Compatible with DVB-T digital TV transmission standard (ETSI EN 300 744)		
Video Output	BNC 1: DVB-T digital video output BNC 2: CVBS analog video output		
Rated Input Voltage / Current	DC 12V±10%		
Power Input Connector	DC Jack 5.5 x 2.1mm, female		
Working/Storage Temperature	0°C ~ 40°C / -10°C ~ 50°C		
Working/Storage Humidity	80% RH / 90% RH		
Case Structure	Metal case; Indoor use	Metal case; Outdoor use	Plastic case; Indoor use
External Dimensions (mm)	110 x 60 x 50 mm	169.5 x 79.5x 77 mm	133.5mm x 111.8mm

Smart IoT Solution-Smart Security Surveillance Series

ccHDtv Module Series

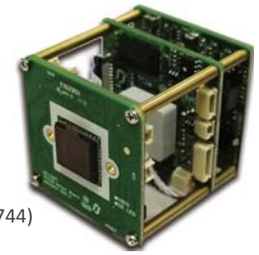
Smart Security Surveillance Series

1080P



- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support Full HD 1080P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- CVBS out (Analog) & DVB-T out (Digital)

720P



- 1/2.8" Sony Exmor CMOS Progressive image sensor
- Support HD 720P / VGA@20-30fps
- Seamless integration with digital TV protocol DVB-T (ETSI EN 300744)
- CVBS out (Analog) & DVB-T out (Digital)

Model	SH-132	SH-122
Video Compression Format	H.264 video compression format, TS stream transmission	
Image Sensor	1/2.8" SONY Exmor CMOS 2 Megapixels Progressive image Sensor	1/2.8" SONY Exmor CMOS 1.3 Megapixels Progressive image Sensor
Digital Video Processor	HI-3516C	HI-3518A
Lens Mount Type	N/A	
Smart IR	Support DC Auto Iris	
Minimum Illumination	Color : 0.2 Lux@F1.2, B/W: 0.01 Lux@F1.2	
Electronic Shutter	1/25 to 1/10,000 sec, 1/30 to 1/10,000 sec	
Auto White Balance	Automatic	
Auto Gain Control	Automatic	
Gamma Characteristic	0.45 dB	
Supported Video Resolution	Supports dual-channel video output： Channel 1: 1080P@20~30fps，Channel 2: VGA @20~30fps	Supports dual-channel video output： Channel 1: 720P@20~30fps，Channel 2: VGA @20~30fps
Video Setting	CVBS OSD to adjust camera settings	
Infrared Filter (ICR)	Supports 5v IR-Cut	
Infrared Light Specifications	N/A	
Effective Infrared Lighting Distance	N/A	
Bandwidth	Adjustable band adjustment: 5 MHz ~ 8MHz	
Frequency Range	Frequency range 141~923Mhz Default: 177 MHz	
Digital Channel	OSD menu setting digital channels : 00~99 channel	
Transmission Format Compatibility	Compatible with DVB-T digital TV transmission standard (ETSI EN 300 744)	
Video Output	BNC 1: DVB-T digital video output BNC 2: CVBS analog video output	
Rated Input Voltage / Current	DC 12V±10%	
Power Input Connector	N/A	
Working/Storage Temperature	0°C ~ 40°C / -10°C ~ 50°C	
Working/Storage Humidity	80% RH / 90% RH	
Case Structure	DC 12V±10%	
External Dimensions (mm)	38mm x 38mm x 49mm	

Smart IoT Solution-Smart Security Surveillance Series

Smart IoT Solution Provider

Digital Video Recorder Series

Smart Security Surveillance Series

- 16 BNC
- Embedded Windows OS
- 3U Rack Mount Design
- 16 x HDD Tray, Max. 64TB

- 16 BNC
- Embedded Linux OS
- Video/Audio Compression
- 8 SATA Hard Disk

Model	HR-330	HR-350
Operating System	Windows7	Linux
Hotswap 3.5inch HD	16 Set	8 Set
Recording Format	DVB-T	
Input	16 Channel, 16 BNC	
Output	HDMI / DVI	
Motion Detection Function	N/A	
Compression format	H.264	
Fan	Fan x 4	Fan x 1
MainBoard	ASUS GRYPHON Z87 以上	Intel 1037U
Memory	4G DDR3-1600 x 2	4G DDR3
USB Port	2 front / 8 back	2 front / 2 back
OS SSD	2.5" 60G	N/A
Ethernet Port	1	
Indicators	1 x Power Status, 1 x HDD Activity, 1 x LAN Activity , 1 x Fan Failure and Overheat	1 x System Power, 1 x Hard Disk Status, 2 x Single HDD Power
Front Buttons	Power On/Off, Alarm Mute, System Reset, 2xUSB 2.0	Power On/Off, System Reset, 2 x USB 2.0
Split Screen	1/4/8/12/16	1/4/8/12/16
Hard Disk	3.5 inch SATA HD	
Backup	Raid 5	
Account	Yes	Yes
Pan / Tilt / Zoom Control	N/A	Yes
LX WX H	660(D) x 432(W) x 132(H) mm	434.2(D) x 480(W) x 88.8(H) mm
Power	650W x 1 + 1 Redundant Power	300W
Operating Temperature	0℃~40℃	0℃~40℃

Digital Video Recorder Series

Smart Security Surveillance Series

- Video format: H264 MP
- Built-in 4 channel RF tuner to support DVB-T
- Receiver Protocol: DVB-T(ETSI EN 300 744)
- Receiver Bandwidth : 6 MHz ~ 8MHz
- 4 channel real time recording
- Recording mode: Continuous recording with over-writing
- Video output : HDMI
- Storage : SATA Hard Drive
- Power Supply: DC 12V/3A

Model	HR-100
Operating System	Embedded Linux OS
Multi-function operation	Recording, monitoring, playback, control, backup, remote
Recording Format	DVB-T（ETSI EN300744）
Input	BNC x 1
Output	HDMI x 1
Motion Detection Function	YES
Compression format	H.264
Resolution / frame rate	1080P(1920x1080 Pixels)20-30fps , D1(720x480 Pixels)20-30fps
Recording mode	Manual, Schedule
Files time	0～60 minutes
Resolution	D1, 1080P@ 20~30fps
Split Screen	Full screen /four split Screen
Speed	120 fps/30 fps
Mode	Search, Time
HDD	3.5 inch SATA HD
Backup	USB 2.0
Protocol	Static/ Dynamic/ PPPoE/DDNS
Remote Link	Computer / Mobile / PDA
Account	Yes
NTP	Yes
Multi-Language	Traditional Chinese / Simplified Chinese / English
Pan / Tilt / Zoom Control	Yes
LX WX H	310 x 200 x 50 mm
Voltage / current	DC 12V/3A
Operating Temperature	0°C ~ 40°C

ccHDtv Solution

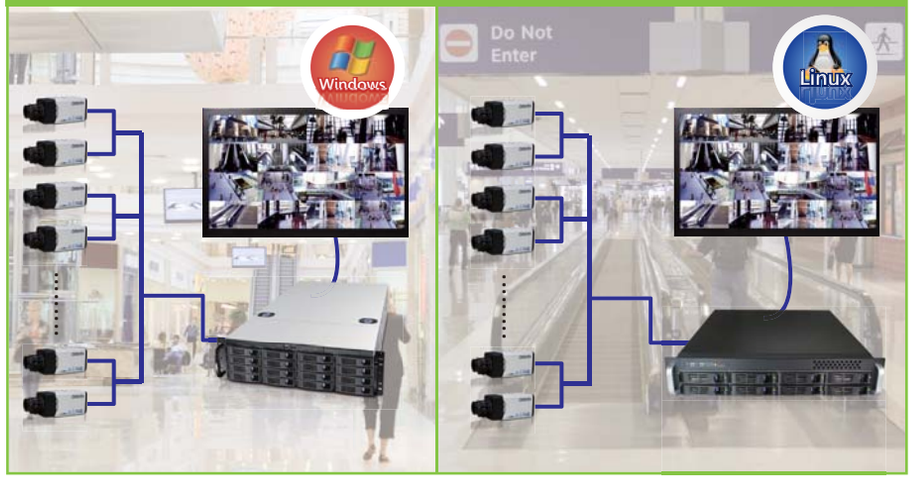
- The system enables viewing of the camera images through the TV channels with a simple click of the TV remote control
- No special system framework is needed; the system enables coupling of the ccHDtv images to the existing digital TV channels through a coaxial cable.
- The system is designed with the digital TV standard communications protocol compatible with DVB-T (ETSI EN 300 744).
- HDcctv systems have the same architecture as their CCTV predecessors, so they are not costly to upgrade existing CCTV systems.
- For ccHDtv the transmission distance can be 500 meters without any repeater.
- The ccHDtv surveillance system can simultaneously run multiple channels of compressed full HD video streaming through a single coaxial cable.
- Practically speaking, over 100 full HD video can be simultaneously transmitted over a coaxial cable.

CCTV upgrade to High Resolution Digital ccHDtv Easily

ccHDtv Solution Professional

ccHDtv 4CH DVR Solution

ccHDtv 16CH PC Base DVR Solution



ccHDtv Solution Home security (DIY)

HD Digital Set-Top-Box Solution

Smart IoT Gateway Series

Smart IoT Solution Provider

IoT UI

OGA Smart IoT solution, we can buddle OGA IP Camera and other OGA IoT solution APK.

Android System

Equipped with the Andriod operating system.Specially AGO Market to install APP directly.

Intelligent Video Surveillance Function (IVS)

Easy to use for our surveillance interface and IVS function. Including of individual behavior(intrude, tail after, suspicious behavior and else) condition of target (Motion detection and Temperature Humidity) by our home security IVS solution.

Analyze Customer information

Easy to statistics the number of persons who watch the advertisement for advertiser reference. And we can broadcast the content of advertisement by distinction, age, and other property

Smart Signage Application

Application for shopping mall, Exhibition Center, public place and Private store. We can provide solution of edit advertisement, cost down for paper and publicity, And have the speed of message transmission.

Video Conference

External camera to Video conference with no boundaries

◎ Specifications may vary, depending on model

Smart IoT Solution-Gateway / Camera

Smart IoT Solution Provider

Hybrid OTT IoT Gateway

DM-8002P

NEW

- Quad Cortex A9 CPU
- 2GB DD3 RAM
  8GB NAND FLASH
- 4K/2K resolution/ Built-in Wi-Fi
- Android 4.2 operation system
- Supports multi-screen interaction
- Support A.Go Market
- View online video-on-demand
- Aluminium alloy housing

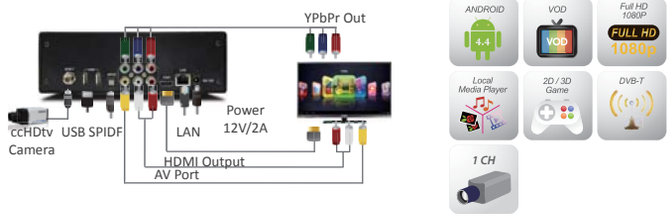
Modle	DM-8002P
OS	Android 4.4
CPU	Quad Cortex A9
DRAM	2GB DDR3
NAND Flash	8GB NAND FLASH
Storage	External Storage Hardware
Output Resolution	HDMI： 2160p/1080p/1080i/720p/576p/480p
Video	MPEG-1/2,MPEG-4,DIVX,H.264,VC-1,H.263,REAL MEDIA,
	MVC,GOOGLE VP8,WMV,H.265, 4Kx2K
Video Decoder	H.264/AVC
Audio	MPEG,WMA,WAV,APE,OGG,FLAC,ACC
Audio Encoding	AMR,AAC
Image Formats	JPEG,BMP,GIF,PNG
Subtitle Formats	SRT SUB SSA
Video/Audio Output	HDMIx1, CVBSx1 / HDMIx1，SPDIFx1
Bluetooth	Yes
Wifi	Lan port 10/100M ;Built in 150MB wireless network adapter，802.11b/g/n
Other IO	SD card slotx1，USB(3.0)x1，USB(2.0)x1，Resetx1 / LED indicatorx1
Power Input	12V2A
Language	Traditional Chinese, Simplified Chinese, English

Hybrid OTT IoT Gateway

DM-9100PR

NEW

- ARM 4 Core
- Built-in Android 4.4 system
- Allows installing of android market apps
- View online video-on-demand
- Supports game download and installation
- Supports multi-screen interaction
- Support hundreds of thousands of online media
- Work with ccHDtv Camera for one channel



Modle	DM-9100PR
OS	Android 4.4
CPU	Quad Cortex A9
DRAM	DDR3 1GB
Flash	8G Byte
I/O Ports	USB 2.0x2,USB 3.0x1
	RJ 45 (10/100 Mbps) x1
	AV portx1
	HDMI x1
	DVB-T x1
	YPbPr x1
	SPIDF x1
Video Codecs	H264 MP, HP@ level 4.1MPEG1, MPEG2 , MP@HL, MPEG4 SP@L0-3, ASP@L0-5/MPEG4 short header format (H.263 baseline)Divx4–6, AVS baseline@level 6.0, H.263 / RealVideo8,9,10 / VC-1
Image Formats	JPG, JPEG, PNG
Music Codec	MPEG L1, L2 decoding
Power Input	DC 12V/2A
Accessories	Romote control / Power supply / User Manual
Language	Traditional Chinese / Simplified Chinese / English / Japanese

IP Camera

NC-290

NEW

- Maximum Resolution:1.3 Megapixel
- Support WDR Function
- Minium illumination:Color 0 lux(IR LED ON)
- Support ONVIF

Megapixel WDR

Model	NC-290
Max.Resolution	1.3 MP
Image Sensor	"1/3" CMOS Image Sensor in 1280x800 resolution
Frame Rate	60 fps.
Shutter Time	1/15 sec. to 1/25,000 sec.
F NO.	F2.0
EFL	3.45 mm2
IR-cut Filter	Yes
Lens Field of View	57.8°(H) , 37.8°(V) , 66°(D)
Lens Focus mode	Fixed Focus (FF)
Support Resolution	16:9 - 1280x720, 800x448,640x360, 480x272, 320x176
	4:3 -960x720, 800x592, 640x480, 480x352, 320x240
WDR	Yes
Min.illumination	Color 0 lux (IR LED ON)
Auto image	AWB, AE
Protocol	IPv4, IPv6, ARP, TCP, UDP, ICMP,DHCP Client, SMTP Client,
	FTP Client, HTTP Server, PPPoE, IP filtering, RTP, RTSP, RTCP,
	Samba Client,Multicast, HTTPS, UPnP Port Forwarding, QoS/CoS
Power Supplier	Supply range 5Vdc ±5%
Operating System	Windows 7(32bite/64 Bite), Windows XP SP3 and above, Andriod 4.2 and above
Interface	Wifi 802.11 a/b/g/n
Software	H.264/MPEG4/MJPEG codec multi streaming
	compression simultaneously /JPEG for still image
	/ ePTZ / ONVIF / Flip & mirror / DM / Pre-post record
Power	Input: 100-240VAC, 50/60Hz, Output: 5VDC, 1.2A

Smart IoT Solution- Camera

LIFE Medical Education Industry

Smart IoT Solution Provider

IP Camera

NC-291

- Maximum Resolution:2.0 Megapixel
- Support WDR Function
- Support privacy mask
- Support ONVIF

Model	NC-291
Max.Resolution	2MP
Image Sensor	"1/2.9" CMOS Image Sensor in 1280x800 resolution
Frame Rate	60 fps.
Shutter Time	1/15 sec. to 1/25,000 sec.
F NO.	F2.0
EFL	3.45 mm2
IR-cut Filter	Yes
Lens Field of View	67.4°(H) , 40.8°(V) , 75°(D)
Lens Focus mode	Fixed Focus (FF)
Support Resolution	16:9 1920 X 1080 , 1280x720, 800x448,640x360, 480x272, 320x176
	4:3 1440X 1080 , 960x720, 800x592, 640x480, 480x352, 320x240
WDR	Yes
Min.illumination	Color 0.1 lux (IR LED ON)
Auto image	AWB, AE
Protocol	IPv4, IPv6, ARP, TCP, UDP, ICMP,DHCP Client, SMTP Client,
	FTP Client, HTTP Server, PPPoE, IP filtering, RTP, RTSP, RTCP,
	Samba Client,Multicast, HTTPS, UPnP Port Forwarding, QoS/CoS
Power Supplier	Supply range 5Vdc ±5%
Operating System	Windows 7(32bite / 64 Bite), Windows XP SP3 and above
Interface	LAN : 10/100BaseT PortX1 , WiFi: 802.11 a/b/g/n
Software	ePTZ / ONVIF / Adjustable Resolution /
	Time and Date Overlay
	Flip & mirror /Privacy Masks / Pre-post record
Power	Input: 100-240VAC, 50/60Hz, Output: 5VDC, 1.2A

USB Camera

NU-722

- 1 Megapixel resolution
- Frame rate 60 fps
- Support AWB & AE
- Support Windows & Andriod System

Model	NU-722
Max.Resolution	1MP
Sensor	"1/8.32" CMOS Image Sensor in 720P resolution
Frame rate	60 fps.
F NO.	F1.8
Lens Focal	1.32
Lens	Board mount
Lens angle of view	67.2° (Horizontal), 41.1° (Vertical)
Focal	Fixed Focus (FF)
Support Resolution	16:9 HD720p (1280x720)
	4:3 VGA (640x480)
WDR	Yes
Auto Function	AWB, AE
Port	USB2.0 (Full Speed , High Speed)
Power	Supply range 5Vdc ±5%
Operating System	Windows 7(32bite/64 Bite), Windows XP SP3 and above
	Andriod 4.2 and above
UVC	Yes
Starting Temp.	-0℃ to 60℃
Operation Temp.	-10℃ to 70℃

Architecture

Smart IoT Solution-HD Media Player Series

Smart IoT Solution Provider

Smart HD Media Player

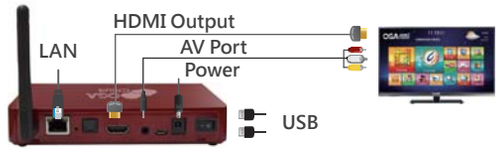
DM-7002P / DM-7002PG

FULL HD 1080P

DM-7002P

DM-7002PG

- Quad Cortex A9
- 2GB DD3 RAM, 8GB NAND FLASH
- Full HD 1080P high definition video output /Built-in Wi-Fi wireless
- Embedded with Android 4.2 Operation system
- Support DLNA & Miracast Function
- Support 3D online games/Support AGO Market
- View online video-on-demand
- Aluminium alloy housing



Model	DM-7002P / DM-7002PG
CPU	Quad Cortex A9
RAM	2GB DDR3
NAND FLASH	8GB NAND FLASH
Operating System	Android 4.2.2
Storage	External Storage hardware
Output Resolution	HDMI：1080p/1080i/720p/576p/480p
Video	MPEG-1/2, MPEG-4, DIVX, H.264, VC-1, H.263,REAL MEDIA, MVC,GOOGLE VP8, WMV,H.265
Video Decoder	H.264/AVC
Audio	MPEG, WMA, WAV, APE, OGG, FLAC, ACC
Audio Encoding	AMR, AAC
Image Formats	JPEG, BMP, GIF, PNG
Subtitle Formats	SRT SUB SSA
Languang	Traditional Chinese, Simplified Chinese, English
Video Port	HDMIx1, CVBSx1
Audio	FL/FR(AV)x1, HDMIx1, SPDIFx1
Wifi	Lan port 10/100M ; Built in 150MB wireless network adapter，802.11b/g/n，Double external antenna
Other IO	SD card slot x1，USB(2.0)x2(connector portable hard disk,USB hard disk base)，Resetx1，OTGx1、LED Indicatorx1
Operation	Power Switch x1，Power 5V 2A

Smart TV

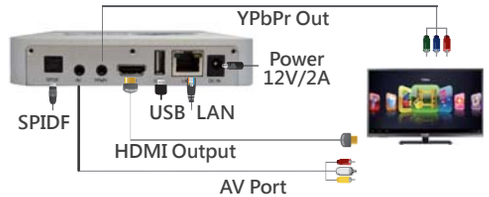
DM-6002P / DM-6002PG

FULL HD 1080P

DM-6002P

DM-6002PG

- View online video-on-demand
- 1080P high definition video playback
- Smart handheld device video sharing
- Do you want to share your videos or interesting videos on YouTube on the TV! Cell phone LAN connection easily done through DLNA
- Setting-free digital photo frame playback function
- Built-in Android 4.0 system to share internet resources



Model	DM-6002P / DM-6002PG
Operating System	Android 4.0
CPU	1GHZ
DRAM	DDR3 1GB
Flash	4G Byte
I/O Ports	USB 2.0 x2
	RJ 45 (10/100 Mbps) x1
	AV port x1
	HDMI x1
	YPbPr x1
	SPIDF x1
Video Codecs	H264 MP, HP@ level 4.1MPEG1, MPEG2 , MP@HL, MPEG4 SP@L0-3, ASP@L0-5/MPEG4 short header format (H.263 baseline)Divx4–6, AVS baseline@level 6.0, H.263 / RealVideo8,9,10 / VC-1
Image Formats	JPG, JPEG, PNG
Music Codec	MPEG L1, L2 decoding
Power Input	DC 12V/2A
Accessories	Remote control / Power supply / User manual
Language	Traditional Chinese / Simplified Chinese / English / Japanese
Bundle	AV connector / Component connector / HDMI cable / Remote control battery x2

Smart IoT Solution- Smart HD Cloud Signage

Smart IoT Solution Provider

Multi-split screen ◇ Making information transmission fast and convenient

Super AD Applications

Motion text block,RSS,Video,Pictures...

Exclusive RDP System

One-of-kind RDP APK for AD dispatch

Share Photos and Videos

Able to share photos and videos from the cell phone with the TV through cell phone App software

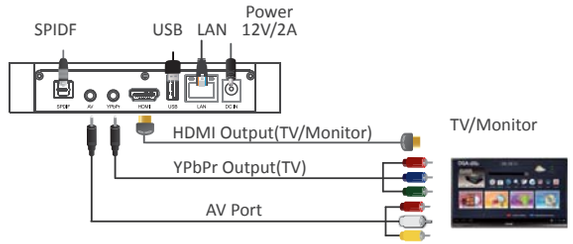
Android System & A.GO Market

Android System easy to operate, A.GO Market support App applications

Smart HD Cloud Signage

DS-6004P

- Flexible user-defined template
- Intuitive visual user-interface
- Easy installation
- Connected to all monitor with HDMI interface
- 1080 Full HD video quality
- Integrated with RSS feeds
- Dispatch content via Internet



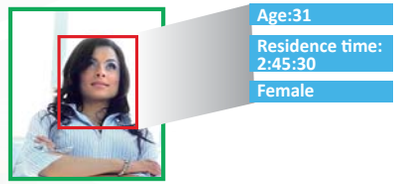
Model	DS-6004P
Operating System	Android 4.0
CPU	1GHZ
DRAM	DDR3 1GB
Flash	4G Byte
I/O Interface	USB 2.0 x2
	AV Port x1
	HDMI x1
	YPbPr x1
	SPIDF x1
Video Codecs	AVI / RMVB / RM / WMV / TS / MPEG / MP4 / MOV / M2TS /MKV / MTS VOB /M4V /ASF
Audio Codec	MPEG L1, L2 decoding
Music Formats	WMA / MP3 / WAV / OGG
Image Formats	JPG, JPEG, PNG
Subtitle	SRT
Power Input	DC 12V/2A
Accessories	Remote control / Power supply / User manual
Bundle	AV connector / Component connector / HDMI cable / Remote control battery x2

Smart IoT Solution- Smart Digital Signage

LIFE Medical Education Industry
Smart IoT Solution Provider

- Provide application for various of display
- Various of interactive content lively
- Focus on target advertisement by function of Face Recognition

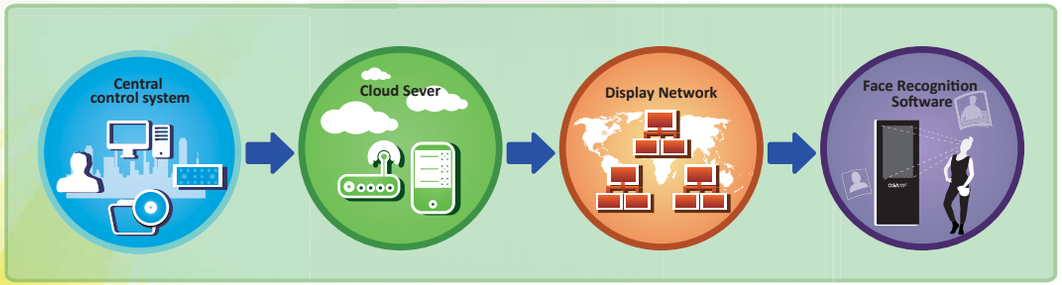
Analyze Customer information



Multi-screen application technology

Smart Signage Applications

Architecture



Smart IoT Digital Signage

OC-2800 MS/MH

NEW

- OC-2800MS/MH Smart IoT Digital Signage (42”/55”)
- ARM 4 core processing technology
- Support 1080P Full HD
- Andriod 4.4 operating system
- Built HD Camera
- Support Wi-Fi
- Support Miracast, Bluetooth , DLNA
- Support AGO Market APP

Model		OC-2842 MS	OC-2855 MS	OC-2842 MH	OC-2855 MH
Type		Straight		Horizontal	
Operation system		4 Core Android 4.4 / Window 7			
CPU		Cortex A9 / X86			
Memory		DDR3 2GB			
Nand Flash		8GB			
UI		Smart IoT Digital			
Camera		1/8.32” ,F.2.4 , HD 720P, Embedded Cam			
Panel	Panel Size	42"	55”	42"	55”
	Resolution	1920 x 1080			
	Backlight	LED Backlight			
	Viewing angle	178° / 178°			
Lan	RJ-45	10/100 Mbps (RJ-45) Giqa enthernet			
	Wifi	Wi-Fi 802.11b/g/n			
I/O Interface	HDD	DTV + ATV			
	USB 2.0	3x, 1x			
	RCA（A/V）	1x			
	YPbPr	1x			
	VGA（PC）	1x			
	Audio in（PC）	1x			
	HDMI	2x			
Power	Power in	AC 110V			
	Power Consumption	60W			
Control interface		IR, Air Mouse(Touch Screen)			
Housing	Front side	Touch Screen (option)			
	Back side	Metal			
	Speaker	Stereo 5WX2			
	Size (LxWxH)	1871×939×76mm		970×632.2×220mm	1225.6x 802x 280 mm
	Weight	90 kg	110 kg	16.3 kg	28.5 kg
Environment	OP Temp	0℃ to 45℃			
	Storage Temp	-20℃ to 60℃			
	Humidity	Under 80% RH			
Language		Traditional Chinese / Simplified Chinese / English			

Smart IoT Solution- 22” Smart Display

Smart IoT Solution Provider

Smart Water Proof Display

OC-2822PW

22”

FULL HD 1080P

- Full HD 1080P
- Waterproof: IP65
- Cortex A9 , 4 core processor
- Equipped with the Android 4.0 operating system
- Support DLNA Miracast

Smart Medical Proof Display

OC-2822PH

22”

FULL HD 1080P

- Full HD 1080P
- Cortex A9, 4 core processor
- Equipped with the Android 4.0 operating system
- Support DLNA Miracast

Smart Display

OC-2822PT

22”

FULL HD 1080P

- Full HD 1080P
- Cortex A9 , 4 core processor
- Equipped with the Android 4.0 operating system
- Support Ethernet / Wi-Fi
- Support DLNA Miracast

Smart Display

OC-2822PS

22”

FULL HD 1080P

- Full HD 1080P
- Cortex A9 , 4 core processor
- Equipped with the Android 4.0 operating system
- Allows multi-split screen and supports simultaneous playback of Full HD 1080P videos

Smart HD Cloud PC Display

OC-2822PA

22”

FULL HD 1080P

- 4 Core processor
- OGA RDP to be a second computer
- Specially AGO Market to install APP directly.
- Full HD 1080P
- Ethernet connect by RJ-45 or USB Wifi dongle

Model		OC-2822PW	OC-2822PH	OC-2822PT	OC-2822PS	OC-2822PA
Operation system		Android 4.0				
CPU		4 Core processor				
Memory		DDR3 1GB				
Nand Flash		2GB/4GB				
UI		OGA Smart Display				
Camera		O	130 Megapixel	O	O	130 Megapixel
Panel	Panel Size	22"				
	Resolution	1920 x 1080				
	Backlight	LED Backlight				
	Viewing angle	178° / 178°				
Lan	RJ-45	10/100 Mbps (RJ-45)				
	Wifi	Wi-Fi (USB Dongle)				
I/O Interface	HDD	NA				
	USB 2.0	1x (Wire connector)	3x			
	RCA（A/V）	1x (Wire connector)	1x			
	YPbPr	NA	1x			
	VGA（PC）	NA	1x			
	Audio in（PC）	NA	1x			
	HDMI	1x (Wire connector)	2x			
	Television signal	A+D (Wire connector)	A+D	A+D	O	A+D
Power	Power in	AC 100~ 240V 50 / 60Hz 1x (Wire connector)	AC 100~ 240V 50 / 60Hz			
	Power Consumption	60W				
Conteol interface		IR, Air Mouse	Touch Screen , IR, Air Mouse	IR, Air Mouse	Touch Screen , IR, Air Mouse	Touch Screen , IR, Air Mouse
Housing	Front side	Glass with Touch Screen	Touch Screen	Glass with Touch Screen	Touch Screen	Touch Screen
	Back side	Metal	Metal	Metal	Metal	Metal
	Waterproof	IP65	IP54	IP54	IP54	IP54
	Speaker	Stereo 5W x 2				
	Size (LxWxH); Weight	670 x 375 x 58 mm ； 6kg				
Environment	OP Temp; Storage Temp	O℃ to 45℃ ； -20℃ to 60℃				
	Humidity	Under 95% RH				Under 80% RH
	Operation Language	Traditional Chinese, Simplified Chinese, English				

Smart IoT Solution-Smart Diaplay Series

Smart IoT Solution Provider

Smart Display

OC-2742PT / OC-2755PT

42” 55”

FULL HD 1080P

- Full HD 1080P high definition video output
- Cortex A9 1GHz CPU
- Equipped with the Android 4.0 operating system
- Supports analog/digital dual TV tuner
- Supports Ethernet / Wi-Fi internet access
- DLNA multi-screen application technology

Smart Display

OC-2742PS / OC-2755PS

42” 55”

FULL HD 1080P

- Allows multi-split screen and supports simultaneous playback of Full HD 1080P videos
- Cortex A9 1GHz CPU
- Equipped with the Android 4.0 operating system
- Supports analog/digital dual TV tuner
- Supports Ethernet / Wi-Fi internet access

Model		OC-2742PT	OC-2755PT	OC-2742PS	OC-2755PS
Operation system		Android 4.0			
CPU		Cortex A9 1GHz			
Memory		DDR3 1GB			
Panel	Panel Size	42”	55”	42”	55”
	Resolution	1920 x 1080			
	Backlight Module	LED Backlight			
	Viewing Angle	178° / 178°			
LAN	RJ45	10/100 Mbps (RJ-45)			
	Wifi	Wi-Fi (USB Dongle)			
I/O Interface	USB 2.0	2x			
	RCA（A/V）	1			
	YPbPr	1			
	VGA（PC）	1x			
	Audio input（PC）	1x			
	HDMI	2x			
Power	Input Power	AC 100~240V 50 / 60Hz			
	Power Consumption	87W	150W	87W	150W
Architecture	Stereo	10W x 2	10W x 2	10W x 2	10W x 2
	Dimension (L x W x H)	970 X 632.2 X 220 mm	1255.6 X 802X 280 mm	970 X 632.2 X 220 mm	1255.6 X 802X 280 mm
	Weight	16.3 kg	28.5 kg	16.3 kg	28.5 kg
Environment	OP Temp	0℃ to 45℃			
	Storage Temp	-20℃ to 60℃			
	Humidity	Under 95% RH			
Language	Language	Traditional Chinese, Simplified Chinese, English			

Smart Interactive Whiteboard

LIFE Medical Education Industry

Smart IoT Solution Provider

The OC-2700PI series is a smart interactive whiteboard that combined both the Windows and Android operating systems; currently there are three panel sizes available for your selection: 65” , 70” and 80”. The OC-2700PI series is a complete system solution that combines whiteboard, video conference, and camera recording functions. It can simultaneously provide interactive usage for multiple environments, and has complete support for various types of smartphones, tablet PCs, TVs and other devices, achieving smart multi-screen interactive operating functions; it also has built-in DLNA wireless playback technology, which can easily achieve the function of sharing files on handheld devices for real-time display. OGA smart interactive whiteboards provide a complete system solution, and can be easily used even by average users.

Dual touch control easy operation

Handwriting touch control design allows touch control directly on the screen, making it convenient for conference presentations and product displays and increasing output efficiency.

Important meeting points handwrite display function

Entertainment and education dual-usage

Equipped with the open-source Android operating system, allowing users to install Android software on their own; also provides a comprehensive A-Go market resource platform, allowing users to download games, recreational, educational and other software to use as they wish.

Security monitoring leaving no worries

Support Digital Video Recording DVR (4CH) for surveillance application (TBD)

Multimedia All-in-One

Multimedia Display

Comes in both Microsoft and Android operating platforms, able to support various smartphones and tablet PCs, allowing the devices to be used as projection equipment.

Video conference with no boundaries

Video Confernce

Support video conference for better collaboration and communication (need additional attached).

Smart Interactive Whiteboard

OC-2765PI / OC-2770PI / OC-2780PI

- Built-in two-point touch screen
- Full HD 1080P high definition video output
- Build-in x86 dual-core system
- Cortex A9 1GHz CPU
- Windows 7 operating system
- Equipped with the Android 4.0 operating system

Model		OC-2765PI	OC-2770PI	OC-2780PI
Panel	Panel Size	65”	70”	80”
	Resolution	1920 x 1080		
	Backlight Module	LED Backlight		
	Viewing Angle	178° / 178°		
I/O Interface	A/V	1x		
	YPbPr	1x		
	VGA (PC)	1x		
	Audio (PC)	1x		
	HDMI	2x		
	RJ-45	1x		
	USB	4x		
Android System		Android 4.0		
CPU		Cortex A9 1GHz		
Memory		DDR 3 1GB		
Nand Flash		2GB / 4GB		
Control Interface		Air mouse		
Language		English / Chinese / Japanese		
Windows System		Windows 7		
CPU		Intel Celeron Dual core 2.4G (Basic)		
Chipset		Intel® H61 Chipset		
Memory		4 GB Dual Channel，DDR3 at 1066MHz		
HDD		1TB		
Integration Interface	Camera	NA		
	Touch Screen	Dual-Touch		
	DVR	4 CH		
	Network	10/100 Mbps (RJ-45), Wi-Fi (Option)		
	Stereo	10W x2		
Architecture	Dimension	1543 x 918 x 147.3 mm	1654 x 990 x 148 mm	1892 x 1117 x 148 mm
	Weight	80 Kg	100 Kg	120 Kg

LIFE Medical Education Industry

Smart IoT Solution Provider

OGA Smart Viewer Way to Innovate

Professional Security Surveillance Series

IP Camera Series

IP Surveillance Solution

5 Megapixel IR IP Camera
- 5 MegaPixel 1/3.2" CMOS Image Sensor
- Real-time H.264, MJPEG Compression(Dual Codec)
- Supports ONVIF Standard to Simplify Integration and Enhance Interoperability

5 Megapixel Vandal Dmoe IP Camera
- 5 MegaPixel 1/3.2" CMOS Image Sensor
- Real-time H.264, MJPEG Compression(Dual Codec)
- Supports ONVIF Standard to Simplify Integration and Enhance Interoperability

Model		NT-282M1	ND-281P1
System		Platform：Grain Media GM8137	
		Flash：16MB, RAM：256MB	
Image Sensor		5 Megapixel High Quality 1/3.2 CMOS Image Sensor	
Lens		Board Lens 2.8 / 3.6 mm F1.6	
IR-cut		Removable IR-cut filter for day & night function	
Minimum illumination		0 Lux(IR LED On)	
IR LED		42 LED	24 LED
IR Distance		40m	15m
Video		H.264: 2560x1920 at 10 fps,	
		H.264: 1920x1080 at 25 fps,	
		H.264: 1280x720 at 30 fps	
		H.264: 640x480 at 30 fps	
		Compression: H.264, MJPEG Streaming: Dual Codec (H.264、JPEG) Selectable	
Image Settings		Adjustable image size, quality, and bit rate	
		Time/Date stamp and text caption overlay	
		Configurable brightness, contrast, saturation, sharpness, white balance and exposure	
		AGC / AWB / AES / BLC / WDR	
Networking	Interface	10/100 Mbps Ethernet, RJ-45	
	Protocol	IPv4, TCP/IP, DHCP, HTTP, RTSP, SNTP, DNS	
	Browser	Microsoft Internet Explorer 6.0 or above Safari, Chrome or Firefox	
Alarm and Event		Motion Detection	
Managemnent Event		Notification using SMTP or FTP	
Users		8 clients on-line monitoring at the same time	
		Multi-level user access control with password protection	
Maintenance		Supports online firmware upgrade	
I/O		RJ-45 Ethernet x 1,DC Jack x1	
IP Rating		IP66	
Power		DC12V	
Max. Power Consumption		3.6W(IR OFF),7W(IR ON)	
Weight		450g	1050g
Dimension		Φ 80 x 74 x 180.6 mm	Φ 135x 110 mm
Operating Environments Temperature		0℃ ~ 45℃	

NVR Series

IP Storage Device Solution

16 CH Network Video Recorder
- Hisilicon SoC CPU special design for NVR with the best image process efficiency
- Support 2 units of SATA/SATA II device up to 8TB HDD recording capacity
- Advanced H.264 compress technology provides the best HDD space usage

Model	NR-200
System	System CPU: Hisilicon SoC；Operating system：Linux
Storage Device/ Interface	Build in SATA interface x 2(Max. 8TB),E-SATAx1(Max. 16TB)
User Interface	17 operating buttons on Front panel controller, NVR IR remote control x1
Video And Other I/O Interface	Dual video：HD OUT/VGA
	USB 2.0 x 2, USB 3.0 x 1
	Headphones (speakers) sound output x1
	Ethernet x 1 , Auto-MDIX
Network Protocol	IPv4、ARP、TCP、UDP、ICMP、SMTP、HTTP、RTP、RTSP、RTCP
Video Format	H.264 compression format, E-Map
Live / Playback	Real-time Live View capable 16CH VGA @30fps
	4CH 1080P @23fps Synchronous Playback
	Recording Query: Time search, Event search
	(IP CAM displacement, triggered alarm notification)
	Playback speed/ slow forward / fast forward in 5 different speed,
	Play Frame by Frame mode (forward or backward)
	Pentaplex operation: Live/ Record/ Playback
Event Notification	Motion detection, Video loss, HDD error
Recording Mode	Constant recording
	Schedule recording
	Manual recording
	Only recording without live (depending on user authority)
Recording Mode	Video output format: AVI
	The USB mobile storage device or remote NAS
System Management	Remote Client software; live, playback set up by PC (remote side)
	Authorization: Maximum 10 group accounts, Hierarchical authority
	Support 3 users log on by Client-side software or browser
	Systems operation records, record login time, IP and selected video
	Browser: MS IE7-IE9
Support Equipment	Support megapixel IP Camera video
	Support CCTV camera video via Video Server.
Power	DC12V / 3A
Operating Temperature	0-45 ℃

IP Camera Series

IP Surveillance Solution

NEW

1.3 Megapixel IP Camera
- Maximum Resolution:1.3 Megapixel
- Support WDR Function
- Minium illumination:Color 0 lux(IR LED ON)
- Support ONVIF

NEW

2 Megapixel IP Camera
- Maximum Resolution:2.0 Megapixel
- Support WDR Function
- Support privacy mask
- Support ONVIF

Model	NC-290	NC-291
Max.Resolution	1.3 MP	2MP
Image Sensor	"1/3" CMOS Image Sensor in 1280x800 resolution	"1/2.9" CMOS Image Sensor in 1280x800 resolution
Frame Rate	60 fps.	
Shutter Time	1/15 sec. to 1/25,000 sec.	
F NO.	F2.0	
EFL	3.45 mm2	
IR-cut Filter	Yes	
Lens Field of View	57.8°(H) , 37.8°(V) , 66°(D)	67.4°(H) , 40.8°(V) , 75°(D)
Lens Focus mode	Fixed Focus (FF)	
Support Resolution	16:9 - 1280x720, 800x448,640x360, 480x272, 320x176	16:9 1920 X 1080 , 1280x720, 800x448,640x360, 480x272, 320x176
	4:3 -960x720, 800x592, 640x480, 480x352, 320x240	4:3 1440X 1080 , 960x720, 800x592, 640x480, 480x352, 320x240
WDR	Yes	
Min.illumination	Color 0 lux (IR LED ON)	Color 0.1 lux (IR LED ON)
Auto image	AWB, AE	
Protocol	IPv4, IPv6, ARP, TCP, UDP, ICMP,DHCP Client, SMTP Client, FTP Client,	
	HTTP Server, PPPoE, IP filtering, RTP, RTSP, RTCP, Samba Client,	
	Multicast, HTTPS, UPnP Port Forwarding, QoS/CoS	
Power Supplier	Supply range 5Vdc ±5%	
Operating System	Windows 7(32bite/64 Bite), Windows XP SP3 and above, Andriod 4.2 and above	
Interface	Wifi 802.11 a/b/g/n	LAN : 10/100BaseT PortX1 , WiFi: 802.11 a/b/g/n
Software	H.264/MPEG4/MJPEG codec multi streaming compression simultaneously /	
	JPEG for still image	
	/ ePTZ / ONVIF / Adjustable Resolution / Flip & mirror / Privacy Masks/ DM / Time and Date Overlay/ Pre-post record	
Power	Input: 100-240VAC, 50/60Hz, Output: 5VDC, 1.2A	

Analog Camera Series	Bullet / Box Camera Series						Dome Camera Series			
	• 1/3" Sony 960H CCD • High hardness Aluminum Housing • Horizontal Resolution 700 TVL • 5ϕ 42 LED • 30m IR Distance • Integrated Bracket Design, Unique 3-Axis Gimbal Mechanism		• 1/3" Sony 960H CCD • High Hardness Aluminum Housing • Horizontal Resolution 700 TVL • Focusing the fuselage • OSD Control • Energy saving power supply design		• 1/3" Sony 960H CCD • High Hardness Aluminum Housing • Horizontal Resolution 700 TVL • 5ϕ 48 LED • 30m IR Distance • Crystal Clear Video Quality		• 1/3" Sony 960H CCD • Plastic Housing • Horizontal Resolution 700 TVL • OSD Control • 5ϕ 24 LED • 20m IR Distance		• 1/3" Sony CCD • Plastic Housing • Horizontal Resolution 420 TVL • 5ϕ 24 LED • 20M IR Distance • Crystal Clear Video Quality	
Model	**C7-240 M3**	**C7-241M3**	**CB-240 M2**	**CB-241 M2**	**C7-240 M2**	**C7-241 M2**	**CD-240 P4**	**CD-241 P4**	**CD-310 P4**	**CD-311 P4**
Housing	30m IR Bullet Camera		Box Camera		30m IR Bullet Camera		20m IR Dome Camera		20m IR Dome Camera	
Video System	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL
CCD Sensor	1/3" Sony EXview HAD CCD II		1/3" Sony EXview HAD CCD II		1/3" Sony Super HAD CCD II		1/3" Sony EXview HAD CCD II		1/3" Sony CCD	
DSP	Sony Enhance Effio-E								Sony DSP	
Effective Picture Element	976 x 494	976 x 582	976 x 494	976 x 582	976 x 494	976 x 582	976 x 494	976 x 582	510 x 492	510 x 492
Horizontal Resolution	Color 700TVL								Color 420TVL	
Minimum Illumination	0 Lux (IR LED On)		0.1 Lux		0 Lux (IR LED On)		0 Lux (IR LED On)		0 Lux (IR LED On)	
Wide Dynamic Range (WDR)	Support									
S/N Ratio	More than 52dB (AGC Off)								More than 48dB (AGC Off)	
Video Output / Connector	Analog:Composite 1 Vp-p / 75 Ohms / BNC									
IR LED	5ϕ 42 LED		N/A		5ϕ 48 LED		5ϕ 24 LED		5ϕ 24 LED	
IR Distance	30M		N/A		30M		20M		20M	
OSD Menu	Yes		Yes		Yes		Yes		N/A	
Auto Iris (DC/Video)	N/A		Yes		N/A		N/A		N/A	
Electronic Shutter	1/60 to 1/100,000 sec.	1/50 to 1/100,000 sec.	1/60 to 1/100,000 sec.	1/50 to 1/100,000 sec.	1/60 to 1/100,000 sec.	1/50 to 1/100,000 sec.	1/60 to 1/100,000 sec.	1/50 to 1/100,000 sec.	1/60 to 1/100,000 sec.	1/50 to 1/100,000 sec.
Auto White Balance	ATW/One touch/User1/User2/ANTI CR/Manual/Push lock								Auto	
Auto Gain Control	Auto/Manual								Auto	
Gamma Correction	0.45									
Mirror	On / Off								N/A	
Backlight Compensation	On / Off / HLC								N/A	
AE/ AI	AE									
Day / Night Mode	Auto / Color / B&W								N/A	
Auto Trace White	1,800°K ~10,500°K								3200°K ~10,000°K	
Line Lock Signal Input	N/A									
Lens Mount / Holder	2.8 ~ 12mm Lens		CS Mount		6mm Board Lens		3.6 mm Board Lens		3.6mm Board Lens	
Ingress Protection	IP66		N/A		IP66		N/A		N/A	
Power Consumption	DC 12V±10%									
Power Connector	DC Jack 5.5 x 2.1mm, Female									
Operation Temp. ; Humidity	-10°C ~ 50°C ; 80% RH									
Storage Temp. ; Humidity	-20°C ~ 60°C ; 90% RH									
Dimension	266x79x106 mm		112 x 68 x 60 mm		ϕ118x85 mm		ϕ118x85 mm		ϕ118x85 mm	
Net Weight	700 g		350 g		350 g		350 g		350 g	

Analog Camera Series

Housing Camera Series

Analog Camera Series						
	40~50M IR Housing Camera ● 1/3" Sony CCD ● Plactic Housing ● Horizontal Resolution 420TVL ● 42 LED ● 40~50M IR Distance ● Auto White Balance	40~50M IR Housing Camera ● 1/3" Sony CCD ● Plactic Housing ● Horizontal Resolution 700TVL ● 42 LED ● 40~50M IR Distance ● Support OSD Menu	40~50M IR Housing Camera ● 1/3"CMOS ● Plactic Housing ● Horizontal Resolution 700TVL ● 42 LED ● 40~50M IR Distance ● Support WDR	40~50M IR Housing Camera ● 1/3"CMOS ● Plactic Housing ● Horizontal Resolution 900TVL ● 42 LED ● 40~50M IR Distance ● Auto White Balance	60~80M IR Housing Camera ● 1/3"Sony CCD ● Metal Housing ● Horizontal Resolution700TVL ● 42 LED ● 60~80M IR Distance ● IP68 Weather Proof Construction	60~80M IR Housing Camera ● 1/3"Sony CMOS ● Metal Housing ● Horizontal Resolution1000TVL ● 42 LED ● 60~80M IR Distance ● IP68 Weather Proof Construction

Model	C9-311I0	C9-251I0	C9-721I0	C9-741I0	C1-241I1	C1-261I1
Housing	40~50m IR Housing Camera				60~80m IR Housing Camera	
Video System	PAL					
CCD Sensor	1/3"Sony CCD	1/3"Sony CCD	1/3"CMOS	1/3"CMOS	1/3"Sony CCD	1/3"Sony CMOS
DSP	Sony DSP	Sony Effio-E	N/A	N/A	Sony Effio-E	Fullhan8520
Effective Picture Element	510 x 492	976 x 494	728 x 488	976 x 496	976 x 494	1280 x 1024
Horizontal Resolution	420 TVL	700 TVL	700 TVL	900 TVL	700 TVL	1000 TVL
Minimum Illumination	0 Lux (IR LED On)					
Wide Dynamic Range (WDR)	N/A	Yes	Yes	N/A	Yes	Yes
S/N Ratio	48db	52db	52db	52db	52db	52db
Video Output / Connector	Analog:Composite 1 Vp-p / 75 Ohms / BNC					
IR LED	42 LED					
IR Distance	40~50M	40~50M	40~50M	40~50M	60~80M	60~80M
OSD Menu	N/A	Yes(Customize)	N/A	N/A	Yes(Customize)	Yes(Customize)
Auto Iris (DC/Video)	N/A					
Electronic Shutter	1/50~1/100,000 sec.					
Auto White Balance	Auto					
Auto Gain Control	Auto					
Gamma Correction	0.45					
Mirror	N/A	N/A	N/A	N/A	Yes	Yes
Backlight Compensation	N/A	On / Off / HLC	On / Off	On / Off	On / Off / HLC	On / Off / HLC
AE/ AI	AE					
Day / Night Mode	Auto / Color / B&W					
Auto Trace White	1,800°K ~10,500°K					
Line Lock Signal Input	N/A					
Lens Mount / Holder	4.0mm or 6.0mm or 8.0mm CS Mount				8.0mm or 12mm or 16mm CS Mount	
Ingress Protection	N/A				IP68	
Power Consumption	DC 12V±10%					
Power Connector	DC Jack 5.5 x 2.1mm, Female					
Operation Temp. ; Humidity	0°C ~ 40°C ; 80% RH					
Storage Temp. ; Humidity	-10°C ~ 50°C; 90% RH					
Dimension	157.3mm x 100.5mm x 88mm				211mm x 123mm x 91mm	
Net Weight	455g	455g	455g	455g	1080g	1080g

Dome Camera Series

Analog Camera Series						
	• 1/3" Sony CCD • Plactic Housing • Horizontal Resolution 700TVL • 25 LED • 20~30M IR Distance	• 1/3" Sony CMOS • Plactic Housing • Horizontal Resolution 1000TVL • 25 LED • 20~30M IR Distance	• 1/3" Sony CCD • Plactic Housing • Horizontal Resolution 700TVL • 42 LED • 15~20M IR Distance	• 1/3" Sony CCD • Plactic Housing • Horizontal Resolution 700TVL • 42 LED • 15~20M IR Distance	• 1/3" CMOS • Plactic Housing • Horizontal Resolution 700TVL • 42 LED • 15~20M IR Distance	• 1/3" CMOS • Plactic Housing • Horizontal Resolution 900TVL • 42 LED • 15~20M IR Distance

Model	CD-2513	CD-2613	CD-3112	CD-2512	CD-7212	CD-7412
Housing	20~30m IR Dome Camera		15~20m IR Dome Camera			
Video System	PAL					
CCD Sensor	1/3"Sony CCD	1/3"Sony CMOS	1/3"Sony CCD	1/3"Sony CCD	1/3"CMOS	1/3"CMOS
DSP	Sony Effio-E	Fullhan8520	Sony DSP	Sony Effio-E	N/A	N/A
Effective Picture Element	976 x 494	1280 x 1024	510 x 492	976 x 494	728 x 488	976 x 496
Horizontal Resolution	700 TVL	1000 TVL	420 TVL	700 TVL	700 TVL	900 TVL
Minimum Illumination	0 Lux (IR LED On)					
Wide Dynamic Range (WDR)	Yes	Yes	N/A	Yes	Yes	N/A
S/N Ratio	52db	52db	48db	52db	52db	52db
Video Output / Connector	Analog:Composite 1 Vp-p / 75 Ohms / BNC					
IR LED	25 LED		42 LED			
IR Distance	20~30M	20~30M	15~20M	15~20M	15~20M	15~20M
OSD Menu	Yes(Customize)	Yes(Customize)	N/A	Yes(Customize)	N/A	N/A
Auto Iris (DC/Video)	N/A					
Electronic Shutter	1/50~1/100,000 sec.					
Auto White Balance	Auto					
Auto Gain Control	Auto					
Gamma Correction	0.45					
Mirror	Yes	Yes	N/A	Yes	N/A	N/A
Backlight Compensation	On / Off / HLC	On / Off / HLC	N/A	On /Off / HLC	On / Off	On / Off
AE/ AI	AE					
Day / Night Mode	Auto / Color / B&W					
Auto Trace White	1,800°K ~10,500°K					
Line Lock Signal Input	N/A					
Lens Mount / Holder	3.6mm or 6.0mm or 8.0 Board Lens		3.6mm or 6.0mm Board Lens			
Ingress Protection	N/A					
Power Consumption	DC 12V±10%					
Power Connector	DC Jack 5.5 x 2.1mm, Female					
Operation Temp. ; Humidity	0°C ~ 40°C ; 80% RH					
Storage Temp. ; Humidity	-10°C ~ 50°C; 90% RH					
Dimension	ϕ135x110 mm		ϕ100x91mm			
Net Weight	240g	240g	175g	175g	175g	175g

Board Camera Series

Board Camera Series

Module	1/3" CCD Camera • 700 TVLine • SONY Effio-E + 960H CCD • OSD manu / Multi-Language • Dynamic and Static white pixel compensation • HLC (High Light Compensation) • 2D noise reduction • 38 X 38 mm single Board		1/3" CCD Camera • 650 TVLine • SONY Effio-E + 960H CCD • OSD manu / Multi-Language • Dynamic and Static white pixel compensation • HLC (High Light Compensation) • 2D noise reduction • 38 X 38 mm single Board		1/3" CMOS Camera • CMOS Camera • Support Simplified Chinese & English Menu • 1000 TV Line • Support ICR		1/3" CCD Camera • 600 TVLine • HTQ3018 solution • Multi-Language OSD • High Image Quality & Ultra Low Light Performance • 2D-Noise Reduction • D-WDR • 32 X 32 mm single Board		1/3" CMOS Camera • 1/3 CMOS Sensor • 700 TV Line • Support ICR • Support CDS		1/3" CMOS Camera • 1/3 CMOS Sensor • 800 TV Line • Support ICR • Support CDS	
Model	**SW-240**	**SW-241**	**SW-250**	**SW-251**	**SW-260**	**SW-261**	**SW-720AM**	**SW-721AM**	**SW-750**	**SW-751**	**SC-760**	**SC-761**
PCB size	38x38 mm		38x38 mm		38x38 mm or 32x32mm		32x32mm		38x38 mm or 32x32mm		38x38 mm or 32x32mm	
Video System	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL
CCD Sensor	1/3" Sony Exview Color CCD		1/3" Sony Exview Color CCD		1/3" CMOS Image Sensor		1/3" CMOS Image Sensor		PC3089K		PC1099K	
Effective Picture Element	976 x 494	976 x 582	976 x 494	976 x 582	1280(H)×1024(V)		728(H) x 488(V)	728(H) x 488(V)	756(H)×504(V)		976 (H)×496 (V)	
Horizontal Resolution	Color 650 TVL		Color 680 TVL		Color 1000 TVL		Color 600 TVL		Color 700 TVL		Color 800 TVL	
Minimum Illumination	0.1 Lux@F2.0				0.01 Lux@F1.2		0.01 Lux@F1.2		0.01 Lux@F1.2		0.01 Lux@F1.2	
WDR	ATR		ATR		ATR		D-WDR		N/A		N/A	
S/N Ratio	More tnan 52dB (AGC Off)		More tnan 52dB (AGC Off)		More tnan 52dB (AGC Off)		More tnan 52dB (AGC Off)		More tnan 52dB (AGC Off)		More tnan 52dB (AGC Off)	
Video Output / Connector	Analog:Composite1 Vp-p / 75 Ohms											
IR LED	N/A		N/A		N/A		N/A		N/A		N/A	
IR Distance	N/A		N/A		N/A		N/A		N/A		N/A	
OSD Menu	Yes		Yes		Yes		Yes		N/A		N/A	
Electronic Shutter	1/60~1/100,000 Sec.	1/50~1/100,000 Sec.	1/60~1/100,000 Sec.	1/50~1/100,000 Sec.	1/60~1/100,000 Sec.	1/50~1/100,000 Sec.	1/60~1/100,000 Sec.	1/50~1/100,000 Sec.	1/50~100,000 / 1/60~100,000 Sec.		1/50~100,000 / 1/60~100,000 Sec.	
BLC	Off				Yes		Yes		Yes		Yes	
Auto White Balance	Auto				Auto		Yes		Auto		Auto	
Auto Gain Control	Auto				Auto		Yes		Auto		Auto	
Flickerless	N/A				N/A		Yes		N/A		N/A	
Gamma Correction	0.45				0.45		0.45		0.45		0.45	
Mirror	Off				Yes		Yes		Yes		Yes	
Dynamic Noise Reduction	2D				2D/3D		Yes		N/A		N/A	
Smart IR	Yes				Yes		Yes		Yes		Yes	
Day / Night Mode	Auto				Auto		Yes		Yes		Yes	
Motion Detection	24 x 16 Zone				Yes		Yes		Yes		Yes	
Privacy	4 Zone				8 Zone		Yes		N/A		N/A	
Power Consumption	DC 12V±10% ; 75 mA±10%				DC 12V±10% ; 80mA±10%		DC 12V±10% ; 50 mA±10%		DC 6~12V±10%		DC 6~12V±10%	
Operating Temperature	-10°C ~ 50°C				-10°C ~ 50°C		-10°C ~ 50°C		10°C ~ 50°C		-10°C ~ 50°C	
Storage Temperature	-20°C ~ 60°C				-20°C ~ 60°C		-20°C ~ 60°C		-20°C ~ 60°C		-20°C ~ 60°C	
Operating Humidity	80% RH				80% RH		80% RH		80% RH		80% RH	
Storage Humidity	90% RH				90% RH		90% RH		90% RH		90% RH	
Dimension	38x38 mm				38x38 mm or 32x32mm		32x32mm		32x32mm		38x38 mm or 32x32mm	
Net Weight	12.5 g ±				12.5 g ±		12.5 g ±		12.5 g ±		12.5 g ±	

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